

APPENDIX



Illustration 1.1: Test System 4 Close Up 1



Illustration 1.2: Test System 4 Close Up 2



Illustration 1.3: Test System 4 Close Up 3



Illustration 1.4: Test System 4 Close Up 4



Illustration 2.1: Operating System & Software preparation on Test System 4

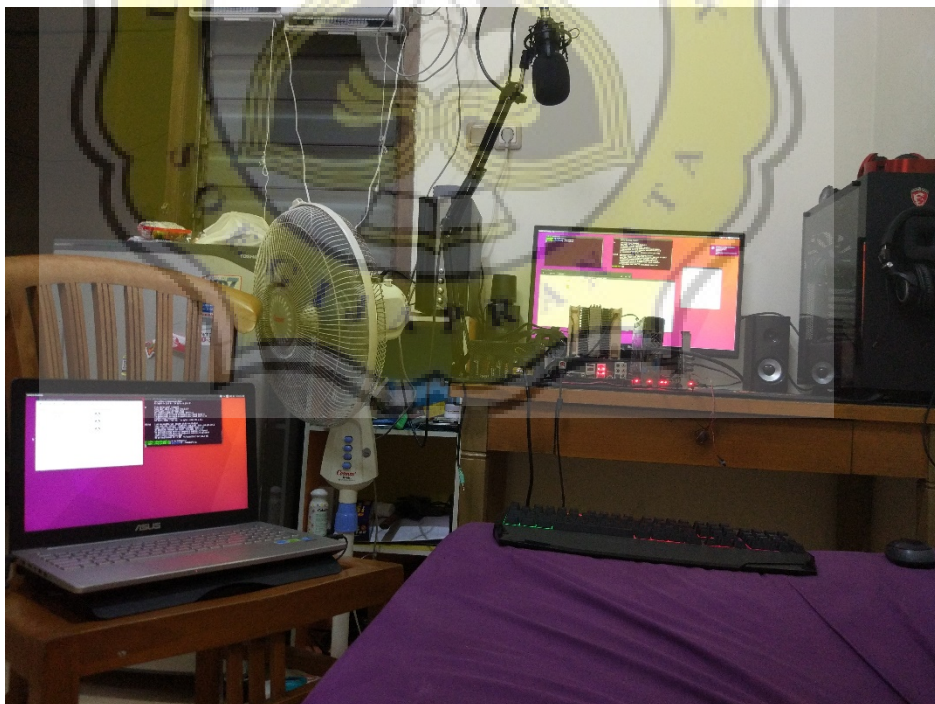


Illustration 2.2: Hashing Process on Test System 3 & 4

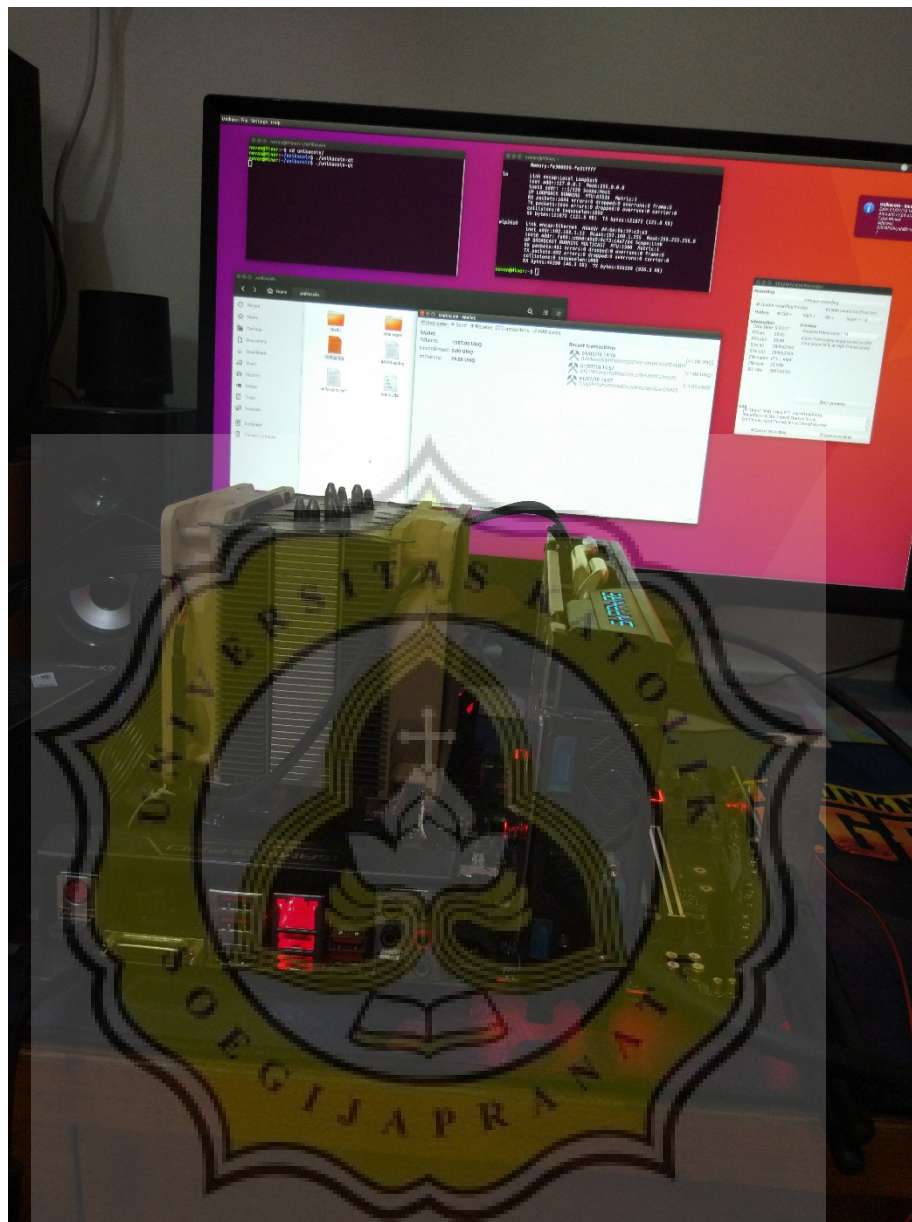


Illustration 2.3: Running tests on Test System 4 (AMD Ryzen 7 1800X)



Illustration 3.1: Test System 1 (Intel Pentium G4560)

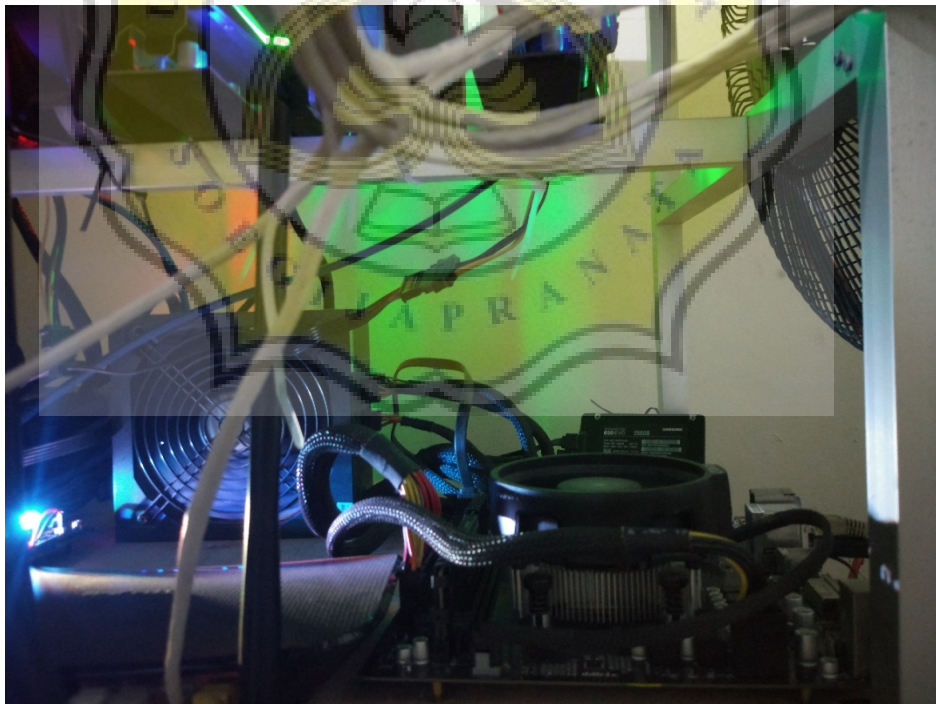


Illustration 3.2: Test System 2 (AMD Ryzen 3 1300X)

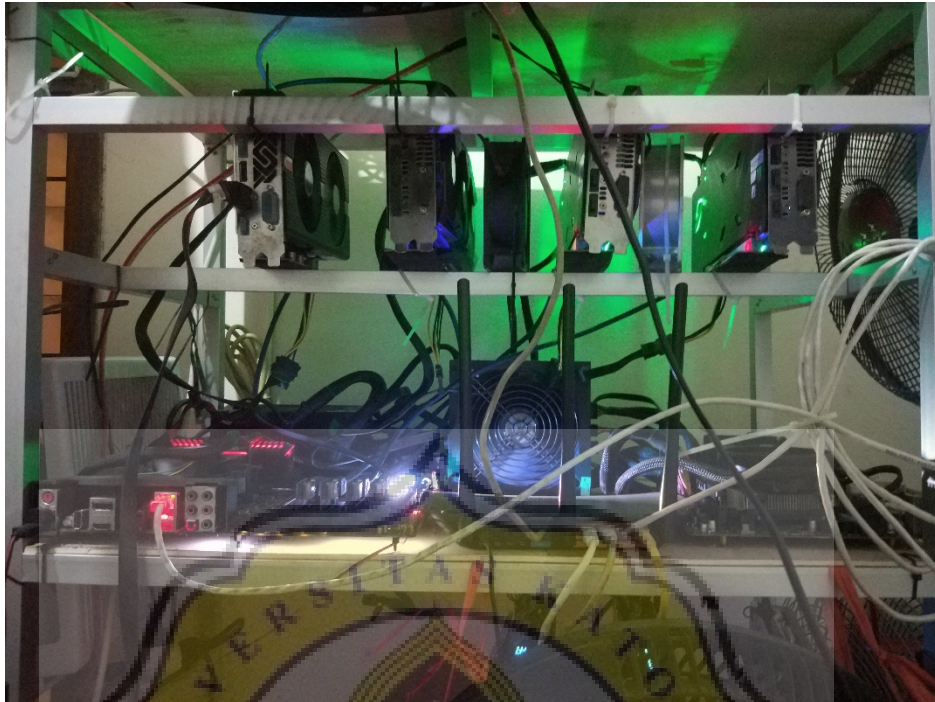


Illustration 3.3: Test System 1 & 2 (Intel Pentium G4560 & AMD Ryzen 3 1300X)



Illustration 3.4: Test System 4 (AMD Ryzen 7 1800X)

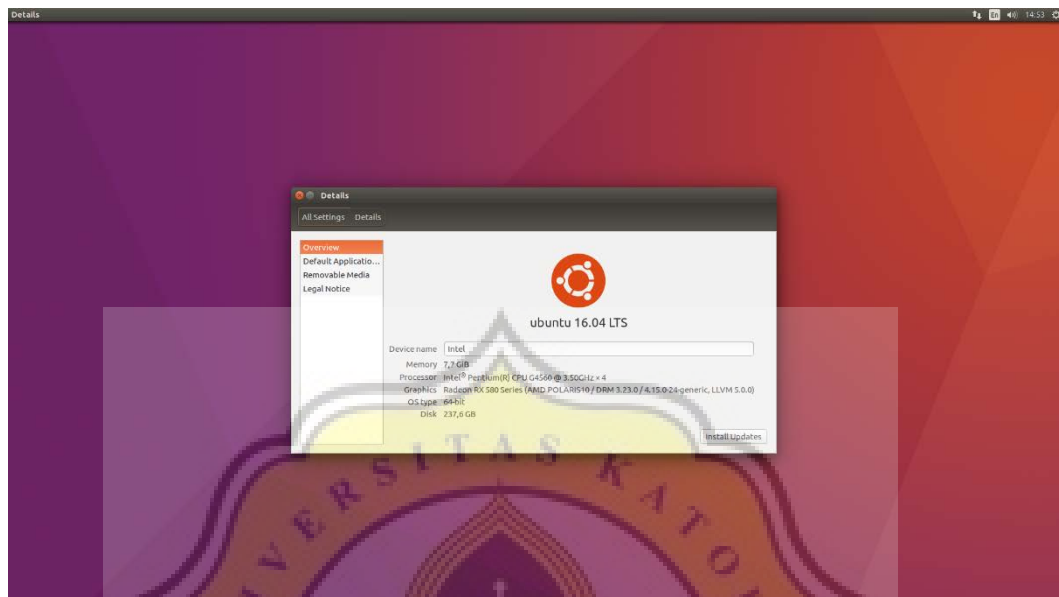


Illustration 4.1: Ubuntu 16.04 LTS on Intel Pentium G4560

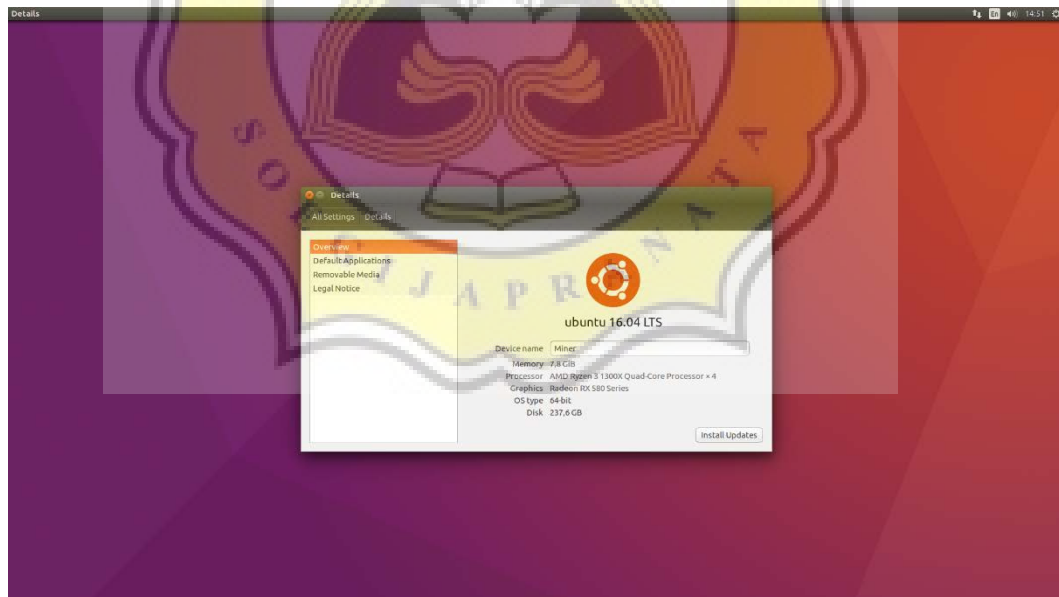


Illustration 4.2: Ubuntu 16.04 LTS on AMD Ryzen 3 1300X

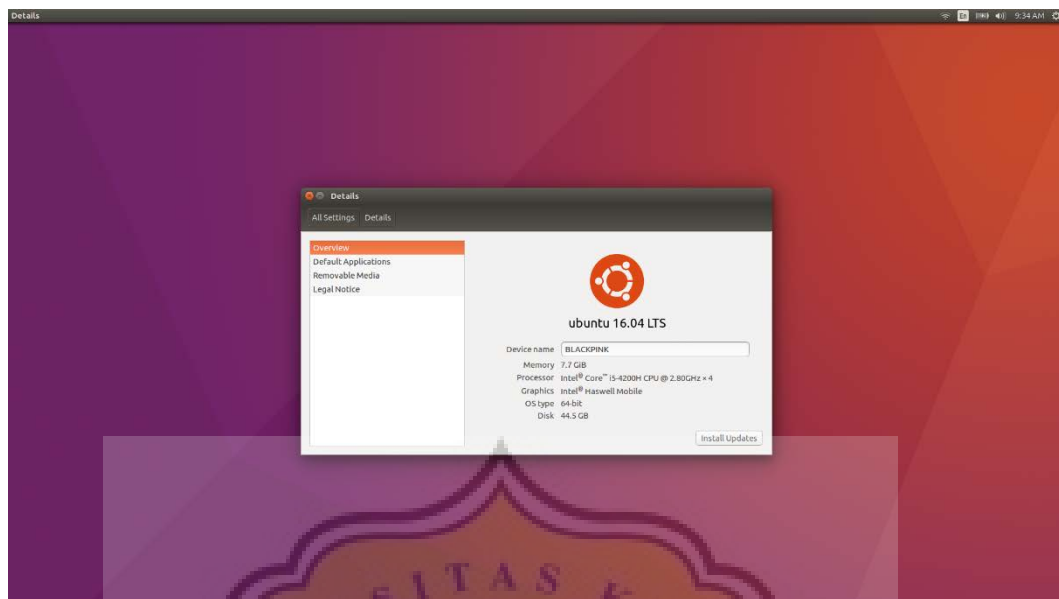


Illustration 4.3: Ubuntu 16.04 LTS on Intel Core i5-4200H

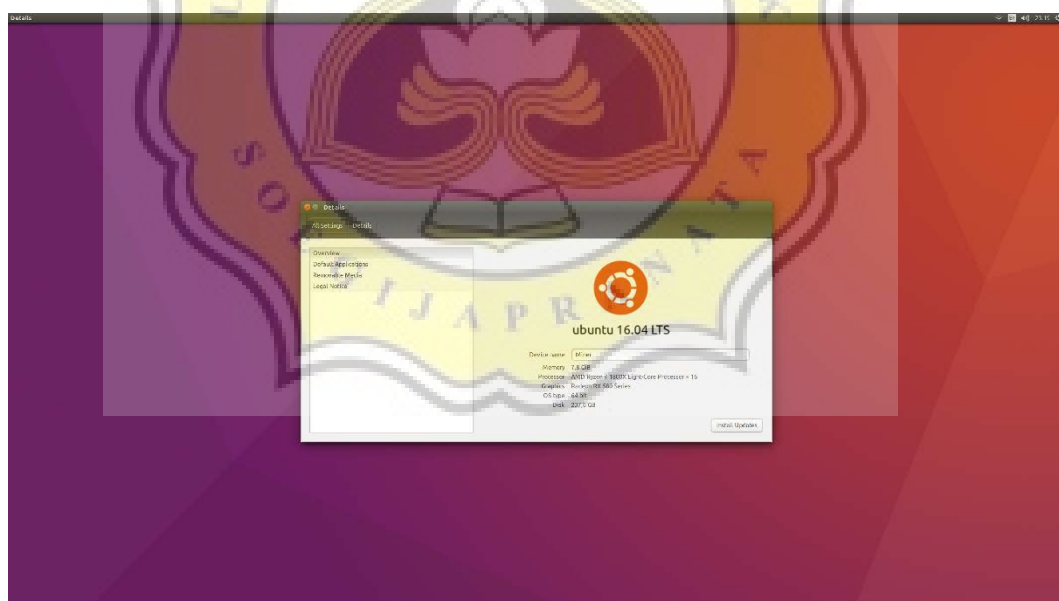


Illustration 4.4: Ubuntu 16.04 LTS on AMD Ryzen 7 1800X


```
saltedboldegg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$
saltedboldegg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{($1=="proof-of-work") {++count} END {print count}}' pentium sha256 10\ hours\ hashing.log
31
saltedboldegg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{($1=="proof-of-work") {++count} END {print count}}' pentium sha256 3\ hours\ hashing.log
13
saltedboldegg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{($1=="proof-of-work") {++count} END {print count}}' pentium sha256 1\ hours\ hashing.log
6
saltedboldegg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{($3=="proof-of-work") {++count} END {print count}}' pentium scrypt 10\ hours\ hashing.log
365
saltedboldegg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{($3=="proof-of-work") {++count} END {print count}}' pentium scrypt 3\ hours\ hashing.log
92
saltedboldegg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{($3=="proof-of-work") {++count} END {print count}}' pentium scrypt 1\ hours\ hashing.log
24
saltedboldegg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$
```

Illustration 5.1: count the number of new block using awk from debug.log 1

```
saltedboldegg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 3 1300X$
2018-07-02 21:12:01.25 proof-of-work found
2018-07-02 21:13:11.13 proof-of-work found
2018-07-02 21:13:02 proof-of-work found
2018-07-02 21:13:28 proof-of-work found
2018-07-02 21:13:17 proof-of-work found
2018-07-02 21:13:26 proof-of-work found
2018-07-02 21:14:30 proof-of-work found
2018-07-02 21:14:28 proof-of-work found
2018-07-02 21:14:52 proof-of-work found
2018-07-02 21:14:37 proof-of-work found
2018-07-02 21:14:53 proof-of-work found
2018-07-02 21:14:35 proof-of-work found
2018-07-02 21:14:18 proof-of-work found
2018-07-02 21:15:13 proof-of-work found
2018-07-02 21:15:10 proof-of-work found
2018-07-02 21:15:28 proof-of-work found
2018-07-02 21:15:26 proof-of-work found
2018-07-02 21:15:08 proof-of-work found
2018-07-02 21:15:08 proof-of-work found
2018-07-02 21:15:14 proof-of-work found
2018-07-02 21:15:14 proof-of-work found
2018-07-02 21:15:38 proof-of-work found
2018-07-02 21:15:38 proof-of-work found
2018-07-02 21:15:59 proof-of-work found
2018-07-02 21:16:17 proof-of-work found
2018-07-02 21:16:36 proof-of-work found
2018-07-02 21:16:41 proof-of-work found
2018-07-02 21:16:38 proof-of-work found
2018-07-02 21:16:16 proof-of-work found
2018-07-02 21:16:19 proof-of-work found
2018-07-02 21:16:28 proof-of-work found
2018-07-02 21:16:25 proof-of-work found
2018-07-02 21:16:06 proof-of-work found
2018-07-02 21:16:09 proof-of-work found
2018-07-02 21:16:05 proof-of-work found
2018-07-02 21:16:24 proof-of-work found
2018-07-02 21:16:11 proof-of-work found
2018-07-02 21:16:15 proof-of-work found
2018-07-02 21:16:42 proof-of-work found
2018-07-02 21:16:53 proof-of-work found
2018-07-02 21:18:33 proof-of-work found
2018-07-02 21:17:24 proof-of-work found
2018-07-02 21:15:12 proof-of-work found
2018-07-02 21:15:32 proof-of-work found
2018-07-02 21:15:53 proof-of-work found
2018-07-02 21:15:15 proof-of-work found
saltedboldegg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{($3=="proof-of-work") {++count} END {print count}}' r3\ scrypt 10\ hours\ hashing.log
375
saltedboldegg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{($3=="proof-of-work") {++count} END {print count}}' r3\ scrypt 3\ hours\ hashing.log
107
saltedboldegg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{($3=="proof-of-work") {++count} END {print count}}' r3\ scrypt 1\ hours\ hashing.log
23
saltedboldegg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{($3=="proof-of-work") {++count} END {print count}}' r3\ sha256 10\ hours\ hashing.log
150
saltedboldegg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{($1=="proof-of-work") {++count} END {print count}}' r3\ sha256 10\ hours\ hashing.log
58
saltedboldegg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{($1=="proof-of-work") {++count} END {print count}}' r3\ sha256 3\ hours\ hashing.log
17
saltedboldegg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 3 1300X$
```

Illustration 5.2: count the number of new block using awk from debug.log 2

```
saltebulledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X
saltebulledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{if($1=="proof-of-work") {++count} END {print count}}' r7\ sha256\ 10\ hours\ hashing.log
864
saltebulledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{if($1=="proof-of-work") {++count} END {print count}}' r7\ sha256\ 3\ hours\ hashing.log
127
saltebulledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{if($1=="proof-of-work") {++count} END {print count}}' r7\ sha256\ 1\ hours\ hashing.log
76
saltebulledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{if($1=="proof-of-work") {++count} END {print count}}' r7\ scrypt\ 10\ hours\ hashing.log
1414
saltebulledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{if($1=="proof-of-work") {++count} END {print count}}' r7\ scrypt\ 3\ hours\ hashing.log
182
saltebulledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{if($1=="proof-of-work") {++count} END {print count}}' r7\ scrypt\ 1\ hours\ hashing.log
136
saltebulledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$
```

Illustration 5.3: count the number of new block using awk from debug.log 3

```
saltebulledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560
2018-07-02 21:13:46 proof-of-work found
2018-07-02 21:13:46 proof-of-work found
2018-07-02 21:13:57 proof-of-work found
2018-07-02 21:14:03 proof-of-work found
2018-07-02 21:14:09 proof-of-work found
2018-07-02 21:14:04 proof-of-work found
2018-07-02 21:15:33 proof-of-work found
2018-07-02 22:02:20 proof-of-work found
2018-07-02 22:02:43 proof-of-work found
2018-07-02 22:09:29 proof-of-work found
2018-07-02 22:16:49 proof-of-work found
2018-07-02 22:16:49 proof-of-work found
2018-07-02 22:19:02 proof-of-work found
2018-07-02 22:19:36 proof-of-work found
2018-07-02 22:20:44 proof-of-work found
2018-07-02 22:21:25 proof-of-work found
2018-07-02 22:21:54 proof-of-work found
2018-07-02 22:22:07 proof-of-work found
2018-07-02 22:28:31 proof-of-work found
2018-07-02 22:28:36 proof-of-work found
2018-07-02 22:37:03 proof-of-work found
2018-07-02 22:38:19 proof-of-work found
2018-07-02 22:41:04 proof-of-work found
2018-07-02 22:42:45 proof-of-work found
2018-07-02 22:48:16 proof-of-work found
2018-07-02 22:50:34 proof-of-work found
2018-07-02 22:51:46 proof-of-work found
2018-07-02 22:52:35 proof-of-work found
saltebulledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{if($1=="hashmeter") {print}}' pentium\ scrypt\ 10\ hours\ hashing.log
2018-07-02 12:15:54 hashmeter 9 khach/s
2018-07-02 12:25:57 hashmeter 9 khach/s
2018-07-02 13:16:00 hashmeter 9 khach/s
2018-07-02 14:26:02 hashmeter 9 khach/s
2018-07-02 14:56:05 hashmeter 9 khach/s
2018-07-02 15:16:08 hashmeter 9 khach/s
2018-07-02 15:56:11 hashmeter 9 khach/s
2018-07-02 16:26:13 hashmeter 9 khach/s
2018-07-02 16:56:16 hashmeter 9 khach/s
2018-07-02 17:26:19 hashmeter 9 khach/s
2018-07-02 17:56:22 hashmeter 9 khach/s
2018-07-02 18:26:24 hashmeter 9 khach/s
2018-07-02 18:56:27 hashmeter 9 khach/s
2018-07-02 19:26:31 hashmeter 9 khach/s
2018-07-02 19:56:34 hashmeter 9 khach/s
2018-07-02 20:26:37 hashmeter 9 khach/s
2018-07-02 20:56:39 hashmeter 9 khach/s
2018-07-02 21:26:41 hashmeter 9 khach/s
2018-07-02 21:56:43 hashmeter 9 khach/s
2018-07-02 22:26:46 hashmeter 9 khach/s
saltebulledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{if($1=="hashmeter") {print}}' pentium\ scrypt\ 3\ hours\ hashing.log
2018-07-02 08:26:53 hashmeter 9 khach/s
2018-07-02 08:56:57 hashmeter 9 khach/s
2018-07-02 09:27:00 hashmeter 9 khach/s
2018-07-02 09:57:03 hashmeter 9 khach/s
2018-07-02 10:27:06 hashmeter 9 khach/s
saltebulledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{if($1=="hashmeter") {print}}' pentium\ scrypt\ 1\ hours\ hashing.log
2018-07-02 11:01:34 hashmeter 9 khach/s
2018-07-02 11:31:37 hashmeter 9 khach/s
2018-07-02 12:01:39 hashmeter 9 khach/s
saltebulledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$
```

Illustration 6.1: read hashmeter from debug.log using awk 1


```
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560
2018-07-02 11:56:08 hashmeter 9 khach/s
2018-07-02 14:26:02 hashmeter 9 khach/s
2018-07-02 14:56:08 hashmeter 9 khach/s
2018-07-02 15:26:08 hashmeter 9 khach/s
2018-07-02 15:56:11 hashmeter 9 khach/s
2018-07-02 16:26:13 hashmeter 9 khach/s
2018-07-02 16:56:10 hashmeter 9 khach/s
2018-07-02 17:26:19 hashmeter 9 khach/s
2018-07-02 17:56:22 hashmeter 9 khach/s
2018-07-02 18:26:24 hashmeter 9 khach/s
2018-07-02 18:56:27 hashmeter 9 khach/s
2018-07-02 19:26:31 hashmeter 9 khach/s
2018-07-02 19:56:34 hashmeter 9 khach/s
2018-07-02 20:26:37 hashmeter 9 khach/s
2018-07-02 20:56:39 hashmeter 9 khach/s
2018-07-02 21:26:41 hashmeter 9 khach/s
2018-07-02 21:56:43 hashmeter 9 khach/s
2018-07-02 22:26:46 hashmeter 9 khach/s
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{($1=="hashmeter") {print}}' pentium\ script\ 3\ hours\ hashing.log
2018-07-02 07:56:53 hashmeter 9 khach/s
2018-07-02 08:26:55 hashmeter 8 khach/s
2018-07-02 08:56:57 hashmeter 9 khach/s
2018-07-02 09:27:00 hashmeter 9 khach/s
2018-07-02 09:57:03 hashmeter 9 khach/s
2018-07-02 10:27:06 hashmeter 9 khach/s
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{($1=="hashmeter") {print}}' pentium\ script\ 1\ hours\ hashing.log
2018-07-02 11:01:34 hashmeter 9 khach/s
2018-07-02 11:31:37 hashmeter 9 khach/s
2018-07-02 12:01:39 hashmeter 9 khach/s
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{($1=="hashmeter") {print}}' pentium\ sha256\ 10\ hours\ hashing.log
hashmeter 4 CPU 4595 khach/s
hashmeter 4 CPU 4601 khach/s
hashmeter 4 CPU 4602 khach/s
hashmeter 4 CPU 4603 khach/s
hashmeter 4 CPU 4602 khach/s
hashmeter 4 CPU 4599 khach/s
hashmeter 4 CPU 4619 khach/s
hashmeter 4 CPU 4604 khach/s
hashmeter 4 CPU 4611 khach/s
hashmeter 4 CPU 4601 khach/s
hashmeter 4 CPU 4601 khach/s
hashmeter 4 CPU 4608 khach/s
hashmeter 4 CPU 4599 khach/s
hashmeter 4 CPU 4611 khach/s
hashmeter 4 CPU 4602 khach/s
hashmeter 4 CPU 4602 khach/s
hashmeter 4 CPU 4602 khach/s
hashmeter 4 CPU 4619 khach/s
hashmeter 4 CPU 4619 khach/s
hashmeter 4 CPU 4619 khach/s
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$ awk '{($1=="hashmeter") {print}}' pentium\ sha256\ 1\ hours\ hashing.log
hashmeter 4 CPU 4578 khach/s
hashmeter 4 CPU 4604 khach/s
hashmeter 4 CPU 4619 khach/s
hashmeter 4 CPU 4619 khach/s
hashmeter 4 CPU 4601 khach/s
hashmeter 4 CPU 4594 khach/s
hashmeter 4 CPU 4604 khach/s
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Pentium G4560$
```

Illustration 6.2: read hashmeter from debug.log using awk 2

```
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Core i5 4200H
2018-06-30 08:43:58 hashmeter 7 khach/s
2018-06-30 09:14:00 hashmeter 7 khach/s
2018-06-30 09:44:03 hashmeter 6 khach/s
2018-06-30 10:14:05 hashmeter 6 khach/s
2018-06-30 10:44:08 hashmeter 6 khach/s
2018-06-30 11:14:10 hashmeter 6 khach/s
2018-06-30 11:44:12 hashmeter 6 khach/s
2018-06-30 12:14:14 hashmeter 6 khach/s
2018-06-30 12:44:15 hashmeter 6 khach/s
2018-06-30 13:14:18 hashmeter 7 khach/s
2018-06-30 13:44:20 hashmeter 7 khach/s
2018-06-30 14:14:22 hashmeter 7 khach/s
2018-06-30 14:44:24 hashmeter 7 khach/s
2018-06-30 15:14:27 hashmeter 7 khach/s
2018-06-30 15:44:30 hashmeter 7 khach/s
2018-06-30 16:14:33 hashmeter 6 khach/s
2018-06-30 16:44:35 hashmeter 6 khach/s
2018-06-30 17:14:37 hashmeter 6 khach/s
2018-06-30 17:44:38 hashmeter 7 khach/s
2018-06-30 18:14:41 hashmeter 7 khach/s
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Core i5 4200H$ awk '{($1=="hashmeter") {print}}' script\ 3\ hours\ hashing.log
2018-06-30 04:12:04 hashmeter 6 khach/s
2018-06-30 04:42:07 hashmeter 6 khach/s
2018-06-30 05:12:09 hashmeter 6 khach/s
2018-06-30 05:42:12 hashmeter 7 khach/s
2018-06-30 06:12:14 hashmeter 6 khach/s
2018-06-30 06:42:17 hashmeter 7 khach/s
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Core i5 4200H$ awk '{($1=="hashmeter") {print}}' script\ 1\ hours\ hashing.log
2018-06-30 03:09:08 hashmeter 7 khach/s
2018-06-30 03:39:10 hashmeter 6 khach/s
2018-06-30 04:09:12 hashmeter 7 khach/s
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Core i5 4200H$ awk '{($1=="hashmeter") {print}}' sha256\ 10\ hours\ hashing.log
hashmeter 4 CPU 3866 khach/s
hashmeter 4 CPU 3863 khach/s
hashmeter 4 CPU 4060 khach/s
hashmeter 4 CPU 3995 khach/s
hashmeter 4 CPU 3778 khach/s
hashmeter 4 CPU 3832 khach/s
hashmeter 4 CPU 3906 khach/s
hashmeter 4 CPU 3908 khach/s
hashmeter 4 CPU 4107 khach/s
hashmeter 4 CPU 3809 khach/s
hashmeter 4 CPU 4095 khach/s
hashmeter 4 CPU 3923 khach/s
hashmeter 4 CPU 3727 khach/s
hashmeter 4 CPU 3897 khach/s
hashmeter 4 CPU 4076 khach/s
hashmeter 4 CPU 3868 khach/s
hashmeter 4 CPU 3553 khach/s
hashmeter 4 CPU 3864 khach/s
hashmeter 4 CPU 4076 khach/s
hashmeter 4 CPU 3893 khach/s
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Core i5 4200H$ awk '{($1=="hashmeter") {print}}' sha256\ 3\ hours\ hashing.log
hashmeter 4 CPU 4027 khach/s
hashmeter 4 CPU 3998 khach/s
hashmeter 4 CPU 3794 khach/s
hashmeter 4 CPU 3753 khach/s
hashmeter 4 CPU 3973 khach/s
hashmeter 4 CPU 4001 khach/s
hashmeter 4 CPU 3827 khach/s
salledbolledeg@BLACKPINK:~/Documents/HASHING/Intel Core i5 4200H$
```

Illustration 6.3: read hashmeter from debug.log using awk 3

```
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/Intel Core i5 4200H
2018-06-30 10:14:05 hashmeter 6 khach/s
2018-06-30 10:14:08 hashmeter 6 khach/s
2018-06-30 11:14:10 hashmeter 6 khach/s
2018-06-30 11:14:12 hashmeter 6 khach/s
2018-06-30 12:14:14 hashmeter 6 khach/s
2018-06-30 12:14:15 hashmeter 6 khach/s
2018-06-30 13:14:18 hashmeter 7 khach/s
2018-06-30 13:14:20 hashmeter 7 khach/s
2018-06-30 14:14:22 hashmeter 7 khach/s
2018-06-30 14:14:24 hashmeter 7 khach/s
2018-06-30 15:14:27 hashmeter 7 khach/s
2018-06-30 15:44:30 hashmeter 7 khach/s
2018-06-30 16:14:33 hashmeter 7 khach/s
2018-06-30 16:44:35 hashmeter 6 khach/s
2018-06-30 17:14:37 hashmeter 6 khach/s
2018-06-30 17:44:38 hashmeter 6 khach/s
2018-06-30 18:14:41 hashmeter 7 khach/s
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/Intel Core i5 4200H$ awk '{($3=="hashmeter") {print}}' script\ 3\ hours\ hashing.log
2018-06-30 04:12:04 hashmeter 6 khach/s
2018-06-30 05:12:07 hashmeter 6 khach/s
2018-06-30 05:12:09 hashmeter 7 khach/s
2018-06-30 05:42:11 hashmeter 7 khach/s
2018-06-30 06:12:14 hashmeter 6 khach/s
2018-06-30 06:42:17 hashmeter 7 khach/s
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/Intel Core i5 4200H$ awk '{($3=="hashmeter") {print}}' script\ 1\ hours\ hashing.log
2018-06-30 03:09:08 hashmeter 7 khach/s
2018-06-30 03:39:10 hashmeter 6 khach/s
2018-06-30 04:09:12 hashmeter 7 khach/s
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/Intel Core i5 4200H$ awk '{($1=="hashmeter") {print}}' sha256\ 10\ hours\ hashing.log
hashmeter 4 CPU 3846 khach/s
hashmeter 4 CPU 3813 khach/s
hashmeter 4 CPU 4888 khach/s
hashmeter 4 CPU 3945 khach/s
hashmeter 4 CPU 3778 khach/s
hashmeter 4 CPU 3837 khach/s
hashmeter 4 CPU 3598 khach/s
hashmeter 4 CPU 3998 khach/s
hashmeter 4 CPU 4107 khach/s
hashmeter 4 CPU 3869 khach/s
hashmeter 4 CPU 4092 khach/s
hashmeter 4 CPU 3923 khach/s
hashmeter 4 CPU 3723 khach/s
hashmeter 4 CPU 3897 khach/s
hashmeter 4 CPU 4070 khach/s
hashmeter 4 CPU 3880 khach/s
hashmeter 4 CPU 3553 khach/s
hashmeter 4 CPU 3864 khach/s
hashmeter 4 CPU 4078 khach/s
hashmeter 4 CPU 3895 khach/s
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/Intel Core i5 4200H$ awk '{($1=="hashmeter") {print}}' sha256\ 3\ hours\ hashing.log
hashmeter 4 CPU 4027 khach/s
hashmeter 4 CPU 3994 khach/s
hashmeter 4 CPU 3794 khach/s
hashmeter 4 CPU 3752 khach/s
hashmeter 4 CPU 3973 khach/s
hashmeter 4 CPU 4088 khach/s
hashmeter 4 CPU 3827 khach/s
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/Intel Core i5 4200H$ awk '{($1=="hashmeter") {print}}' sha256\ 1\ hours\ hashing.log
hashmeter 4 CPU 4078 khach/s
hashmeter 4 CPU 3713 khach/s
hashmeter 4 CPU 3921 khach/s
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/Intel Core i5 4200H$
```

Illustration 6.4: read hashmeter from debug.log using awk 4

```
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{($3=="hashmeter") {print}}' r3\ script\ 10\ hours\ hashing.log
2018-07-02 12:15:27 hashmeter 10 khach/s
2018-07-02 13:15:28 hashmeter 10 khach/s
2018-07-02 13:15:29 hashmeter 10 khach/s
2018-07-02 14:15:30 hashmeter 10 khach/s
2018-07-02 14:15:31 hashmeter 10 khach/s
2018-07-02 15:15:33 hashmeter 10 khach/s
2018-07-02 15:15:34 hashmeter 10 khach/s
2018-07-02 16:15:35 hashmeter 10 khach/s
2018-07-02 16:15:36 hashmeter 10 khach/s
2018-07-02 17:15:37 hashmeter 10 khach/s
2018-07-02 17:15:38 hashmeter 10 khach/s
2018-07-02 18:15:40 hashmeter 10 khach/s
2018-07-02 18:15:41 hashmeter 10 khach/s
2018-07-02 19:15:42 hashmeter 10 khach/s
2018-07-02 19:15:43 hashmeter 10 khach/s
2018-07-02 20:15:44 hashmeter 10 khach/s
2018-07-02 20:15:45 hashmeter 10 khach/s
2018-07-02 21:15:46 hashmeter 10 khach/s
2018-07-02 21:15:48 hashmeter 10 khach/s
2018-07-02 22:15:50 hashmeter 10 khach/s
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{($3=="hashmeter") {print}}' r3\ script\ 3\ hours\ hashing.log
2018-07-02 07:15:39 hashmeter 10 khach/s
2018-07-02 08:15:41 hashmeter 10 khach/s
2018-07-02 08:15:42 hashmeter 10 khach/s
2018-07-02 09:15:43 hashmeter 10 khach/s
2018-07-02 09:15:47 hashmeter 10 khach/s
2018-07-02 10:15:48 hashmeter 10 khach/s
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{($3=="hashmeter") {print}}' r3\ script\ 1\ hours\ hashing.log
2018-07-02 11:01:36 hashmeter 10 khach/s
2018-07-02 11:31:41 hashmeter 10 khach/s
2018-07-02 12:01:45 hashmeter 10 khach/s
saltedbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X$
```

Illustration 6.5: read hashmeter from debug.log using awk 5


```
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X
2018-07-02 13:12:38 hashmeter 10 khach/s
2018-07-02 13:16:29 hashmeter 10 khach/s
2018-07-02 14:26:30 hashmeter 10 khach/s
2018-07-02 14:56:33 hashmeter 10 khach/s
2018-07-02 15:26:33 hashmeter 10 khach/s
2018-07-02 15:56:33 hashmeter 10 khach/s
2018-07-02 16:26:35 hashmeter 10 khach/s
2018-07-02 16:56:36 hashmeter 10 khach/s
2018-07-02 17:26:37 hashmeter 10 khach/s
2018-07-02 17:56:38 hashmeter 10 khach/s
2018-07-02 18:26:40 hashmeter 10 khach/s
2018-07-02 18:56:41 hashmeter 10 khach/s
2018-07-02 19:26:42 hashmeter 10 khach/s
2018-07-02 19:56:43 hashmeter 10 khach/s
2018-07-02 20:26:44 hashmeter 10 khach/s
2018-07-02 20:56:45 hashmeter 10 khach/s
2018-07-02 21:26:46 hashmeter 10 khach/s
2018-07-02 21:56:48 hashmeter 10 khach/s
2018-07-02 22:26:50 hashmeter 10 khach/s
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{ $3=="hashmeter" } {print} ' r3\ scrypt\ 3\ hours\ hashing.log
2018-07-02 07:56:39 hashmeter 10 khach/s
2018-07-02 08:26:41 hashmeter 10 khach/s
2018-07-02 08:56:42 hashmeter 10 khach/s
2018-07-02 09:26:43 hashmeter 10 khach/s
2018-07-02 09:56:47 hashmeter 10 khach/s
2018-07-02 10:26:48 hashmeter 10 khach/s
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{ $3=="hashmeter" } {print} ' r3\ scrypt\ 1\ hours\ hashing.log
2018-07-02 11:03:36 hashmeter 10 khach/s
2018-07-02 11:31:41 hashmeter 10 khach/s
2018-07-02 12:01:42 hashmeter 10 khach/s
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{ $3=="hashmeter" } {print} ' r3\ sha256\ 10\ hours\ hashing.log
hashmeter 4 CPU 20779 khach/s
hashmeter 4 CPU 20934 khach/s
hashmeter 4 CPU 21011 khach/s
hashmeter 4 CPU 20804 khach/s
hashmeter 4 CPU 20950 khach/s
hashmeter 4 CPU 20858 khach/s
hashmeter 4 CPU 20868 khach/s
hashmeter 4 CPU 20924 khach/s
hashmeter 4 CPU 20894 khach/s
hashmeter 4 CPU 20852 khach/s
hashmeter 4 CPU 20961 khach/s
hashmeter 4 CPU 20868 khach/s
hashmeter 4 CPU 20907 khach/s
hashmeter 4 CPU 20894 khach/s
hashmeter 4 CPU 20934 khach/s
hashmeter 4 CPU 20804 khach/s
hashmeter 4 CPU 20950 khach/s
hashmeter 4 CPU 20858 khach/s
hashmeter 4 CPU 20901 khach/s
hashmeter 4 CPU 20934 khach/s
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{ $3=="hashmeter" } {print} ' r3\ sha256\ 3\ hours\ hashing.log
hashmeter 4 CPU 20882 khach/s
hashmeter 4 CPU 20924 khach/s
hashmeter 4 CPU 20945 khach/s
hashmeter 4 CPU 20881 khach/s
hashmeter 4 CPU 20921 khach/s
hashmeter 4 CPU 20881 khach/s
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X$ awk '{ $3=="hashmeter" } {print} ' r3\ sha256\ 1\ hours\ hashing.log
hashmeter 4 CPU 20808 khach/s
hashmeter 4 CPU 20901 khach/s
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 3 1300X$
```

Illustration 6.6: read hashmeter from debug.log using awk 6

```
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 7 1800X
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{ $3=="hashmeter" } {print} ' r7\ scrypt\ 10\ hours\ hashing.log
2018-06-30 08:16:16 hashmeter 41 khach/s
2018-06-30 09:14:19 hashmeter 41 khach/s
2018-06-30 09:44:22 hashmeter 41 khach/s
2018-06-30 10:14:25 hashmeter 41 khach/s
2018-06-30 10:44:27 hashmeter 40 khach/s
2018-06-30 11:14:30 hashmeter 41 khach/s
2018-06-30 11:44:33 hashmeter 40 khach/s
2018-06-30 12:14:36 hashmeter 41 khach/s
2018-06-30 12:44:38 hashmeter 41 khach/s
2018-06-30 13:14:41 hashmeter 41 khach/s
2018-06-30 13:44:44 hashmeter 40 khach/s
2018-06-30 14:14:47 hashmeter 41 khach/s
2018-06-30 14:44:50 hashmeter 41 khach/s
2018-06-30 15:14:52 hashmeter 41 khach/s
2018-06-30 15:44:55 hashmeter 41 khach/s
2018-06-30 16:14:58 hashmeter 41 khach/s
2018-06-30 16:45:01 hashmeter 41 khach/s
2018-06-30 17:15:04 hashmeter 41 khach/s
2018-06-30 17:45:07 hashmeter 41 khach/s
2018-06-30 18:15:09 hashmeter 41 khach/s
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{ $3=="hashmeter" } {print} ' r7\ scrypt\ 3\ hours\ hashing.log
2018-07-01 07:55:33 hashmeter 36 khach/s
2018-07-01 08:25:36 hashmeter 36 khach/s
2018-07-01 08:55:39 hashmeter 36 khach/s
2018-07-01 09:25:43 hashmeter 36 khach/s
2018-07-01 09:55:46 hashmeter 36 khach/s
2018-07-01 10:25:49 hashmeter 36 khach/s
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{ $3=="hashmeter" } {print} ' r7\ scrypt\ 1\ hours\ hashing.log
2018-07-01 10:56:55 hashmeter 36 khach/s
2018-07-01 11:26:58 hashmeter 36 khach/s
salledbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 7 1800X$
```

Illustration 6.7: read hashmeter from debug.log using awk 7

```
saliedbolledeg@BLACKPINK: ~/Documents/HASHING/AMD Ryzen 7 1800X
2018-06-30 09:14:16 hashmeter 41 khash/s
2018-06-30 09:14:19 hashmeter 41 khash/s
2018-06-30 09:14:22 hashmeter 41 khash/s
2018-06-30 10:14:22 hashmeter 41 khash/s
2018-06-30 10:14:27 hashmeter 40 khash/s
2018-06-30 11:14:30 hashmeter 41 khash/s
2018-06-30 11:44:33 hashmeter 40 khash/s
2018-06-30 12:14:36 hashmeter 41 khash/s
2018-06-30 12:44:38 hashmeter 41 khash/s
2018-06-30 13:14:41 hashmeter 41 khash/s
2018-06-30 13:44:44 hashmeter 40 khash/s
2018-06-30 14:14:47 hashmeter 41 khash/s
2018-06-30 14:44:50 hashmeter 41 khash/s
2018-06-30 15:14:52 hashmeter 41 khash/s
2018-06-30 15:44:55 hashmeter 41 khash/s
2018-06-30 16:14:58 hashmeter 41 khash/s
2018-06-30 16:45:01 hashmeter 41 khash/s
2018-06-30 17:15:04 hashmeter 41 khash/s
2018-06-30 17:45:07 hashmeter 41 khash/s
2018-06-30 18:15:09 hashmeter 41 khash/s
saliedbolledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{($1=="hashmeter") {print} r7} script\ 3\ hours\ hashing.log
2018-07-01 07:55:33 hashmeter 36 khash/s
2018-07-01 08:25:36 hashmeter 36 khash/s
2018-07-01 08:55:39 hashmeter 36 khash/s
2018-07-01 09:25:42 hashmeter 36 khash/s
2018-07-01 09:55:46 hashmeter 36 khash/s
2018-07-01 10:25:49 hashmeter 36 khash/s
saliedbolledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{($1=="hashmeter") {print} r7} script\ 1\ hours\ hashing.log
2018-07-01 10:56:55 hashmeter 36 khash/s
2018-07-01 11:26:58 hashmeter 36 khash/s
saliedbolledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{($1=="hashmeter") {print} r7} sha256\ 10\ hours\ hashing.log
hashmeter 16 CPU 88068 khash/s
hashmeter 16 CPU 101195 khash/s
hashmeter 16 CPU 101162 khash/s
hashmeter 16 CPU 101379 khash/s
hashmeter 16 CPU 101146 khash/s
hashmeter 16 CPU 100935 khash/s
hashmeter 16 CPU 101179 khash/s
hashmeter 16 CPU 101244 khash/s
hashmeter 16 CPU 101146 khash/s
hashmeter 16 CPU 101113 khash/s
hashmeter 16 CPU 101244 khash/s
hashmeter 16 CPU 101211 khash/s
hashmeter 16 CPU 101179 khash/s
hashmeter 16 CPU 100807 khash/s
hashmeter 16 CPU 101139 khash/s
hashmeter 16 CPU 101379 khash/s
hashmeter 16 CPU 101064 khash/s
hashmeter 16 CPU 101146 khash/s
hashmeter 16 CPU 101228 khash/s
hashmeter 16 CPU 101146 khash/s
saliedbolledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{($1=="hashmeter") {print} r7} sha256\ 3\ hours\ hashing.log
hashmeter 16 CPU 88208 khash/s
hashmeter 16 CPU 88208 khash/s
hashmeter 16 CPU 88798 khash/s
hashmeter 16 CPU 88779 khash/s
hashmeter 16 CPU 88724 khash/s
hashmeter 16 CPU 88353 khash/s
saliedbolledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$ awk '{($1=="hashmeter") {print} r7} sha256\ 1\ hours\ hashing.log
hashmeter 16 CPU 88093 khash/s
hashmeter 16 CPU 88451 khash/s
saliedbolledeg@BLACKPINK:~/Documents/HASHING/AMD Ryzen 7 1800X$
```

Illustration 6.8: read hashmeter from debug.log using awk 8

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